

**Flood Control Project Maintenance****2011 Structure Summary Report****Overall Unit and Item Ratings****Merced Streams Group****Black Rascal Creek Drop Structure**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Vegetation & Obstructions	M
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	M
	Revetments	N
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	A
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	N
	Safety	A

**Owens Creek Siphon Structure**

Overall Unit Rating	Rated Item	Item Rating
<b>M</b>	Vegetation & Obstructions	M
	Shoaling / Sedimentation	U
	Erosion / Bank Caving	A
	Revetments	N
	Encroachments	A
	Culverts: Inlets / Outlets	U
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	N
	Safety	A

**Flood Control Project Maintenance****Unit Cover Sheet****2011 Structure Inspection Results****Merced Streams Group**

Structure
Black Rascal Creek Drop Structure

Structure Rating	A
Date of Inspection	7/12/2011
DWR Inspector	Herman Phillips
Accompanied By	No One No One
	No One No One

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2011**

**Merced Streams Group**

Structure						Structure Length	Inspection Start/End	Inspector
Black Rascal Creek Drop Structure							07/12/2011 07/12/2011	Herman Phillips

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation				37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		M	Inspector Comments: The vegetation growing around the structure need to be maintained.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No shoaling or sedimentation present.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		M	Inspector Comments: There is erosion on unit 1 downstream end of structure along the slope caused by pedestrians, also over across channel to unit 2 there is erosion on bank downstream of structure. Repairs are needed.	37.314620 ° -120.396270 °	37.314620 ° -120.396270 °	4 Y
5	0.00	0.00	Structures	Revetments		N	Inspector Comments: This item does not apply to this inspection.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No Trash, debris, excavation, structures, or other obstructions present within the project easement area.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: This item does not apply to this inspection.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: There are no breaks, holes, cracks in the culvert that would result in significant water leakage.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: This item does not apply to this inspection.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: This item does not apply to this inspection. This structure has no trash rack.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: This item does not apply to this inspection.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: This item does not apply to this inspection.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not apply to this inspection.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	13

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment  
C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2011**

**Merced Streams Group**

Structure						Structure Length	Inspection Start/End	Inspector
Black Rascal Creek Drop Structure							07/12/2011 07/12/2011	Herman Phillips

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: This item does not apply to this inspection.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: The concrete surfaces at this structure show no defects.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: There are no significant areas of tilting, sliding or settlement that would endanger the integrity of the project.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No scouring / erosion or undermining near the structure.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	17
18	0.00	0.00	Structures	Security Fencing		A	Inspector Comments: Safety / security fencing is good condition and provides protection against falling or unauthorized access.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: This item does not apply to this inspection.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: This item does not apply to this inspection.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: This item does not apply to this inspection.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	21
22	0.00	0.00	Structures	Monolith Joints		N	Inspector Comments: This item does not apply to this inspection.	37.314750 ° -120.396294 °	37.314750 ° -120.396294 °	22
23	0.00	0.00	Structures	Safety		A		37.314637 ° -120.396259 °	37.314637 ° -120.396259 °	23 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2011**

**Merced Streams Group**

Structure	Structure Length	Inspection Start/End	Inspector
Black Rascal Creek Drop Structure		07/12/2011 07/12/2011	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Black Rascal Creek Drop Structure viewed from right bank unit 1(upstream end) looking across at unit 2 left bank. Photo taken 7-12-2011

phillips\_t\_20110901\_002.jpg



Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Erosion / Bank Caving

Unit 1 downstream water ward slope erosion right at concrete headwall.37.31462 -120.39627. This erosion caused by pedestrian foot traffic.

phillips\_t\_20110901\_003.jpg



Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Erosion / Bank Caving

Looking across channel at unit 2 downstream of structure there is bank erosion. Make repairs before it gets worse.

phillips\_t\_20110901\_004.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2011**

**Merced Streams Group**

Structure	Structure Length	Inspection Start/End	Inspector
Black Rascal Creek Drop Structure		07/12/2011 07/12/2011	Herman Phillips

Levee Mile Report Line	23
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Safety

This photo of Black Rascal Creek Drop Structure shows the safety fence right bank and left bank side of the structure. Photo taken 7-20-2011.

phillips\_t\_20110902\_006.jpg



**\* Location**

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**Flood Control Project Maintenance****Unit Cover Sheet****2011 Structure Inspection Results****Merced Streams Group**

Structure
Owens Creek Siphon Structure

Structure Rating	<b>M</b>
Date of Inspection	7/12/2011
DWR Inspector	Herman Phillips
Accompanied By	No One No One
	No One No One

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2011**

**Merced Streams Group**

Structure						Structure Length	Inspection Start/End	Inspector
Owens Creek Siphon Structure							07/12/2011 07/12/2011	Herman Phillips

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation			Inspector Comments: This structure has two separate parts, an inlet on the side of the railroad tracks, and an outlet on the side of the highway. The coordinates for this issue are for the inlet of Owen Creek Siphon Structure.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		M	Inspector Comments: Log jams, snags, vegetation growth (such as cat tails, bull rushes, bushes or saplings) or other obstructions block approximately 25% of the FCW. The coordinates for this issue is for the outlet side of the structure.	37.262343 ° -120.285349 °	37.262343 ° -120.285349 °	2 Y
3	0.00	0.00	Structures	Shoaling / Sedimentation		U	Inspector Comments: Unable to see due to excessive vegetation.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No active erosion or bank caving observed on the landward or on the riverward side of the levee.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	4
5	0.00	0.00	Structures	Revetments		N	Inspector Comments: This item does not apply to this inspection.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No Trash, debris, excavation, structures, or other obstructions present within the project easement area.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		U	Inspector Comments: Accumulated debris, sediment or vegetation blocks more than 10% of the culvert opening, impairing the culvert's capacity and hydraulic effectiveness.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: There are no breaks, holes, cracks in the culvert that would result in significant water leakage. Corrugated metal pipes, if present are in good condition or have been relined with appropriate material, which is still in good condition.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: No metal pipes at this site.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: This item does not apply to this inspection. No trash racks at this Structure.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: This item does not apply to this inspection. There are no flap gates at this structure.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	11

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2011**

**Merced Streams Group**

Structure						Structure Length	Inspection Start/End	Inspector
Owens Creek Siphon Structure							07/12/2011 07/12/2011	Herman Phillips

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: This item does not apply to this inspection.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not apply to this inspection.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: This item does not apply to this inspection.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: The concrete surface is in good shape.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: There are no significant areas of tilting, sliding or settlement that would endanger the integrity of the project.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No scouring / erosion or undermining near the structure.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: This item does not apply to this inspection. There is no need for security fencing at this site.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: This item does not apply to this inspection.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: This item does not apply to this inspection.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: This item does not apply to this inspection.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	21
22	0.00	0.00	Structures	Monolith Joints		N	Inspector Comments: This item does not apply to this inspection.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No hazardous conditions that might affect the operation of the Structure exist.	37.262880 ° -120.287860 °	37.262880 ° -120.287860 °	23

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2011**

**Merced Streams Group**

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Siphon Structure		07/12/2011 07/12/2011	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Owens Creek Siphon Structure outlet end. This photo was taken 7-12-2011. 37.262343 - 120.285349 L/M 0.39	
phillips_t_20110901_005.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
This photo here shows the inlet of the Owens Creek Siphon Structure. There is an over growth of Tullies and Willow trees growing in channel that need to be removed. Photo taken 7-12-2011. 37.26288 -120.28786 L/M 1.02	
phillips_t_20110902_009.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Vegetation & Obstructions
Wild growth of willow trees, tulies and other wild growth present in channel blocking inlet. Wild growth needs to be removed. Unable to see if other issues exist due to vegetation.	
phillips_t_20110902_011.jpg	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected, see Inspector Comment

C : Corrected